

11/10/2015
Ms. Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road, Suite 1

Knoxville TN 37932

Project Name: Westlake Landfill
Project #:
Workorder #: 1510295

Dear Ms. Cecilia Greene

The following report includes the data for the above referenced project for sample(s) received on 10/16/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

A Eurofins Lancaster Laboratories Company

WORK ORDER #: 1510295

Work Order Summary

CLIENT:	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932	BILL TO:	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932
PHONE:	865-675-3669	P.O. #	
FAX:	865-675-3677	PROJECT #	Westlake Landfill
DATE RECEIVED:	10/16/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	10/29/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	ENGWESA001	Passive S.E. RAD130/SKC
02A	ENGWESA005	Passive S.E. RAD130/SKC
03A	ENGWESA007	Passive S.E. RAD130/SKC
04A	ENGWESA008	Passive S.E. RAD130/SKC
05A	ENGWESA011	Passive S.E. RAD130/SKC
06A	Duplicate	Passive S.E. RAD130/SKC
07A	TRIP BLANK	Passive S.E. RAD130/SKC
08A	Lab Blank	Passive S.E. RAD130/SKC
09A	LCS	Passive S.E. RAD130/SKC
09AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY:

DATE: 10/29/15

Technical Director

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LABORATORY NARRATIVE
Passive SE by Mod EPA TO-17
Auxier & Associates, Inc.
Workorder# 1510295

Seven Radiello 130 (Solvent) samples were received on October 16, 2015. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	TO-17	ATL Modifications
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m³ concentrations in the Lab Blank and Trip Blank, a sampling duration of 20538 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWESA001**Lab ID#: 1510295-01A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.31	0.20
Hexane	0.10	0.075	0.27	0.20
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.14	0.087
Chloroform	0.10	0.066	0.10	0.069
Cyclohexane	0.10	0.091	0.10	0.096
Carbon Tetrachloride	0.10	0.074	0.39	0.29
Benzene	0.40	0.25	0.42	0.26
Heptane	0.10	0.085	0.31	0.26
Toluene	0.10	0.067	0.68	0.45
Tetrachloroethene	0.10	0.084	0.54	0.45
Ethyl Benzene	0.10	0.072	0.11	0.082
m,p-Xylene	0.10	0.070	0.32	0.23
o-Xylene	0.10	0.076	0.11	0.086

Client Sample ID: ENGWESA005**Lab ID#: 1510295-02A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.32	0.20
Hexane	0.10	0.074	0.39	0.29
Ethyl Acetate	0.40	0.25	0.57	0.35
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.19	0.12
Chloroform	0.10	0.065	0.11	0.070
Cyclohexane	0.10	0.090	0.11	0.098
Carbon Tetrachloride	0.10	0.073	0.40	0.29
Benzene	0.40	0.24	0.43	0.26
Heptane	0.10	0.084	0.26	0.22
Toluene	0.10	0.066	1.0	0.69
Ethyl Benzene	0.10	0.072	0.13	0.091
m,p-Xylene	0.10	0.070	0.37	0.26
o-Xylene	0.10	0.075	0.12	0.090



Air Toxics

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWESA007**Lab ID#: 1510295-03A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.26	0.16
Hexane	0.10	0.074	0.40	0.30
Ethyl Acetate	0.40	0.25	0.62	0.39
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.16	0.096
Cyclohexane	0.10	0.091	0.13	0.11
Carbon Tetrachloride	0.10	0.073	0.41	0.30
Benzene	0.40	0.24	0.50	0.30
Heptane	0.10	0.084	0.27	0.23
Toluene	0.10	0.066	1.3	0.87
Ethyl Benzene	0.10	0.072	0.16	0.12
m,p-Xylene	0.10	0.070	0.49	0.34
o-Xylene	0.10	0.075	0.15	0.11

Client Sample ID: ENGWESA008**Lab ID#: 1510295-04A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.22	0.14
Hexane	0.10	0.074	0.40	0.29
Ethyl Acetate	0.40	0.25	0.40	0.25
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.16	0.096
Chloroform	0.10	0.065	0.11	0.073
Carbon Tetrachloride	0.10	0.073	0.43	0.31
Benzene	0.40	0.24	0.46	0.28
Heptane	0.10	0.084	0.24	0.20
Toluene	0.10	0.066	0.82	0.54
Ethyl Benzene	0.10	0.072	0.12	0.085
m,p-Xylene	0.10	0.070	0.33	0.23
o-Xylene	0.10	0.075	0.12	0.086

Client Sample ID: ENGWESA011**Lab ID#: 1510295-05A**

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWESA011

Lab ID#: 1510295-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.074	0.30	0.22
Carbon Tetrachloride	0.10	0.073	0.38	0.28
Benzene	0.40	0.24	0.45	0.28
Heptane	0.10	0.084	0.22	0.18
Toluene	0.10	0.066	0.77	0.51
Ethyl Benzene	0.10	0.072	0.11	0.082
m,p-Xylene	0.10	0.070	0.32	0.22
o-Xylene	0.10	0.075	0.11	0.082

Client Sample ID: Duplicate

Lab ID#: 1510295-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.30	0.19
Hexane	0.10	0.074	0.28	0.21
Ethyl Acetate	0.40	0.25	0.54	0.34
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.18	0.11
Cyclohexane	0.10	0.090	0.10	0.093
Carbon Tetrachloride	0.10	0.073	0.36	0.26
Benzene	0.40	0.24	0.40	0.24
Heptane	0.10	0.084	0.24	0.20
Toluene	0.10	0.066	0.96	0.64
Ethyl Benzene	0.10	0.072	0.12	0.083
m,p-Xylene	0.10	0.070	0.33	0.23
o-Xylene	0.10	0.075	0.11	0.081

Client Sample ID: TRIP BLANK

Lab ID#: 1510295-07A

No Detections Were Found.



Air Toxics

Client Sample ID: ENGWESA001

Lab ID#: 1510295-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102311sim	Date of Collection: 10/14/15 1:56:00 PM		
Dil. Factor:	1.00	Date of Analysis: 10/23/15 01:40 PM		
		Date of Extraction: 10/23/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.31	0.20
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.27	0.20
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.14	0.087
Chloroform	0.10	0.066	0.10	0.069
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.091	0.10	0.096
Carbon Tetrachloride	0.10	0.074	0.39	0.29
Benzene	0.40	0.25	0.42	0.26
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.31	0.26
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.68	0.45
Tetrachloroethene	0.10	0.084	0.54	0.45
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.11	0.082
m,p-Xylene	0.10	0.070	0.32	0.23
o-Xylene	0.10	0.076	0.11	0.086
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20271 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130



Air Toxics

Client Sample ID: ENGWESA005

Lab ID#: 1510295-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102312sim	Date of Collection: 10/14/15 3:25:00 PM		
Dil. Factor:	1.00	Date of Analysis: 10/23/15 02:04 PM		
		Date of Extraction: 10/23/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.32	0.20
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.39	0.29
Ethyl Acetate	0.40	0.25	0.57	0.35
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.19	0.12
Chloroform	0.10	0.065	0.11	0.070
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.090	0.11	0.098
Carbon Tetrachloride	0.10	0.073	0.40	0.29
Benzene	0.40	0.24	0.43	0.26
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	0.26	0.22
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	1.0	0.69
Tetrachloroethene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.13	0.091
m,p-Xylene	0.10	0.070	0.37	0.26
o-Xylene	0.10	0.075	0.12	0.090
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20472 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



Air Toxics

Client Sample ID: ENGWESA007

Lab ID#: 1510295-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102313sim	Date of Collection:	10/14/15 3:00:00 PM	
Dil. Factor:	1.00	Date of Analysis:	10/23/15 02:28 PM	
		Date of Extraction:	10/23/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.26	0.16
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.40	0.30
Ethyl Acetate	0.40	0.25	0.62	0.39
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.16	0.096
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.091	0.13	0.11
Carbon Tetrachloride	0.10	0.073	0.41	0.30
Benzene	0.40	0.24	0.50	0.30
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.084	0.27	0.23
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.066	1.3	0.87
Tetrachloroethene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.16	0.12
m,p-Xylene	0.10	0.070	0.49	0.34
o-Xylene	0.10	0.075	0.15	0.11
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20439 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



Air Toxics

Client Sample ID: ENGWESA008

Lab ID#: 1510295-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102314sim	Date of Collection: 10/14/15 4:24:00 PM		
Dil. Factor:	1.00	Date of Analysis: 10/23/15 02:52 PM		
		Date of Extraction: 10/23/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.22	0.14
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.40	0.29
Ethyl Acetate	0.40	0.25	0.40	0.25
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.16	0.096
Chloroform	0.10	0.065	0.11	0.073
1,1,1-Trichloroethane	0.10	0.078	Not Detected	Not Detected
Cyclohexane	0.10	0.090	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	0.43	0.31
Benzene	0.40	0.24	0.46	0.28
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	0.24	0.20
Trichloroethene	0.10	0.070	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	0.82	0.54
Tetrachloroethene	0.10	0.082	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.12	0.085
m,p-Xylene	0.10	0.070	0.33	0.23
o-Xylene	0.10	0.075	0.12	0.086
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.085	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.095	Not Detected	Not Detected
Naphthalene	0.10	0.19	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20538 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130



Air Toxics

Client Sample ID: ENGWESA011

Lab ID#: 1510295-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102315sim	Date of Collection: 10/14/15 2:30:00 PM		
Dil. Factor:	1.00	Date of Analysis: 10/23/15 03:17 PM		
		Date of Extraction: 10/23/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.30	0.22
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	Not Detected	Not Detected
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.091	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	0.38	0.28
Benzene	0.40	0.24	0.45	0.28
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.084	0.22	0.18
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.066	0.77	0.51
Tetrachloroethene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.11	0.082
m,p-Xylene	0.10	0.070	0.32	0.22
o-Xylene	0.10	0.075	0.11	0.082
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20400 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



Air Toxics

Client Sample ID: Duplicate

Lab ID#: 1510295-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102316sim	Date of Collection:	10/14/15 3:25:00 PM	
Dil. Factor:	1.00	Date of Analysis:	10/23/15 03:41 PM	
		Date of Extraction:	10/23/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.30	0.19
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.28	0.21
Ethyl Acetate	0.40	0.25	0.54	0.34
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.18	0.11
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.090	0.10	0.093
Carbon Tetrachloride	0.10	0.073	0.36	0.26
Benzene	0.40	0.24	0.40	0.24
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	0.24	0.20
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	0.96	0.64
Tetrachloroethene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.12	0.083
m,p-Xylene	0.10	0.070	0.33	0.23
o-Xylene	0.10	0.075	0.11	0.081
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20472 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130



Air Toxics

Client Sample ID: TRIP BLANK

Lab ID#: 1510295-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102317sim	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 10/23/15 04:05 PM		
		Date of Extraction: 10/23/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	Not Detected	Not Detected
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	Not Detected	Not Detected
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.078	Not Detected	Not Detected
Cyclohexane	0.10	0.090	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	Not Detected	Not Detected
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	Not Detected	Not Detected
Trichloroethene	0.10	0.070	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	Not Detected	Not Detected
Tetrachloroethene	0.10	0.082	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	Not Detected	Not Detected
m,p-Xylene	0.10	0.070	Not Detected	Not Detected
o-Xylene	0.10	0.075	Not Detected	Not Detected
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.085	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.095	Not Detected	Not Detected
Naphthalene	0.10	0.19	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20538 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1510295-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102308sim	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 10/23/15 12:27 PM		
		Date of Extraction: 10/23/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	Not Detected	Not Detected
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	Not Detected	Not Detected
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.078	Not Detected	Not Detected
Cyclohexane	0.10	0.090	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	Not Detected	Not Detected
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	Not Detected	Not Detected
Trichloroethene	0.10	0.070	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	Not Detected	Not Detected
Tetrachloroethene	0.10	0.082	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	Not Detected	Not Detected
m,p-Xylene	0.10	0.070	Not Detected	Not Detected
o-Xylene	0.10	0.075	Not Detected	Not Detected
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.085	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.095	Not Detected	Not Detected
Naphthalene	0.10	0.19	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20538 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1510295-09A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102305sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/23/15 10:59 AM
		Date of Extraction:	10/23/15
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Compound	%Recovery	Method Limits	
Ethanol	108	50-130	
Acetone	103	70-130	
Methyl tert-butyl ether	108	70-130	
Hexane	112	70-130	
Ethyl Acetate	109	70-130	
2-Butanone (Methyl Ethyl Ketone)	106	70-130	
Chloroform	117	70-130	
1,1,1-Trichloroethane	104	70-130	
Cyclohexane	90	70-130	
Carbon Tetrachloride	105	70-130	
Benzene	98	70-130	
1,2-Dichloroethane	118	70-130	
Heptane	124	70-130	
Trichloroethene	104	70-130	
4-Methyl-2-pentanone	105	70-130	
Toluene	95	70-130	
Tetrachloroethene	101	70-130	
Chlorobenzene	87	70-130	
Ethyl Benzene	100	70-130	
m,p-Xylene	100	70-130	
o-Xylene	98	70-130	
Styrene	64	20-100	
Propylbenzene	95	70-130	
1,4-Dichlorobenzene	84	50-110	
Naphthalene	22	5-80	

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1510295-09AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	c102306sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/23/15 11:23 AM
		Date of Extraction:	10/23/15
Compound	%Recovery	Method Limits	
Ethanol	113	50-130	
Acetone	104	70-130	
Methyl tert-butyl ether	101	70-130	
Hexane	115	70-130	
Ethyl Acetate	107	70-130	
2-Butanone (Methyl Ethyl Ketone)	106	70-130	
Chloroform	94	70-130	
1,1,1-Trichloroethane	111	70-130	
Cyclohexane	110	70-130	
Carbon Tetrachloride	109	70-130	
Benzene	107	70-130	
1,2-Dichloroethane	95	70-130	
Heptane	103	70-130	
Trichloroethene	105	70-130	
4-Methyl-2-pentanone	106	70-130	
Toluene	100	70-130	
Tetrachloroethene	106	70-130	
Chlorobenzene	94	70-130	
Ethyl Benzene	107	70-130	
m,p-Xylene	104	70-130	
o-Xylene	104	70-130	
Styrene	70	20-100	
Propylbenzene	94	70-130	
1,4-Dichlorobenzene	89	50-110	
Naphthalene	21	5-80	

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130